

RM641-SD

Q170



► Features

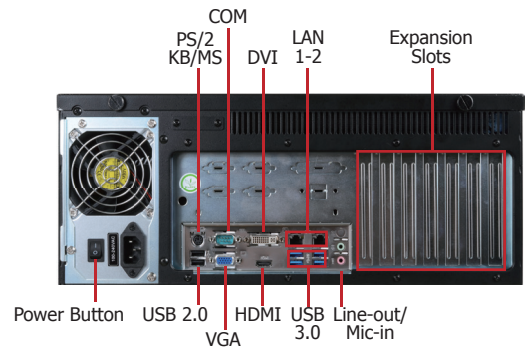
- 6th Gen Intel Core Rackmount 4U Box PC
- Up to 1x 3.5"/2.5" SATA drive bay and 3x optical drive bays
- Front-accessible system fan and USB interfaces
- Supports 7 expansion slots: 2 PCIe x16, 2 PCIe x4, 3 PCI
- Designed for industrial server application



► Panel

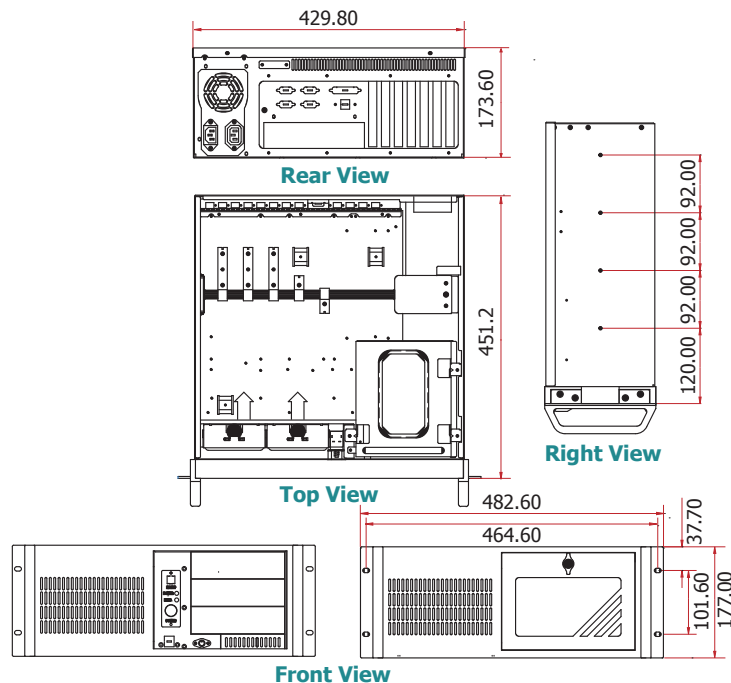


Front View



Rear View

► Dimensions



► Specifications

| | | | |
|-------------------------------------|---------------------------------|---|---|
| SYSTEM | Processor | LGA 1151 Socket 6th Generation Intel® Core™ Processors Intel® Core™ i7-6700 Processor, Quad Core, 8M Cache, 3.4GHz (4.0GHz), 65W Intel® Core™ i7-6700TE Processor, Quad Core, 8M Cache, 2.4GHz (3.4GHz), 35W Intel® Core™ i5-6500 Processor, Quad Core, 6M Cache, 3.2GHz (3.6GHz), 65W Intel® Core™ i5-6500TE Processor, Quad Core, 6M Cache, 2.3GHz (3.3GHz), 35W Intel® Core™ i3-6100 Processor, Dual Core, 3M Cache, 3.7GHz, 47W Intel® Core™ i3-6100TE Processor, Dual Core, 4M Cache, 2.7GHz, 35W Intel® Pentium® Processor G4400, Dual Core, 3M Cache, 3.3GHz, 47W Intel® Pentium® Processor G4400TE, Dual Core, 3M Cache, 2.4GHz, 35W | |
| | Chipset | Intel® Q170 Chipset | |
| | Memory | Four 288-pin DIMM up to 64GB | Dual Channel DDR4 1866/2133MHz |
| | BIOS | Insyde SPI 128Mbit | |
| | GRAPHICS | Controller | Intel® HD Gen 9 Graphics |
| | Feature | OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9 | |
| | Display | 1 x VGA 1 x DVI-I (DVI-D signal) 1 x HDMI | VGA: resolution up to 1920x1200 @ 60Hz DVI: resolution up to 1920x1200 @ 60Hz HDMI: resolution up to 4096x2160 @ 24Hz |
| | Triple Displays | VGA + DVI-I (DVI-D signal) + HDMI | |
| STORAGE | | 3 x 5.25" Optical Drive Bays (Front Accessible) 1 x 3.5"/2.5" SATA 3.0 Drive Bay (Front Accessible) | |
| EXPANSION | Interface | 2 x PCIe x16 (1 x16 or 2 x8 signal) (Gen 3) 2 x PCIe x4 (Gen 3) 3 x PCI | |
| AUDIO | Audio Codec | Realtek ALC888S-VD2-GR | |
| ETHERNET | Controller | 1 x Intel® I210AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT11.0 (10/100/1000Mbps) (only Core i7/i5 supports iAMT) | |
| LED | Indicators | 1 x Power LED 1 x HDD LED | |
| FRONT I/O | USB | 2 x USB 2.0 (available upon request) | |
| | Front Door | 1 x Drive Panel Door With Keylock | |
| | Buttons | 1 x Power Switch 1 x Reset Switch | |
| REAR I/O | Ethernet | 2 x GbE (RJ-45) | |
| | Serial | 1 x RS-232/422/485 (RS-232 w/ power) (DB-9) | |
| | USB | 4 x USB 3.0 2 x USB 2.0 | |
| | PS/2 | 1 x PS/2 (mini-DIN-6) | |
| | Display | 1 x VGA 1 x DVI-I (DVI-D signal) 1 x HDMI | |
| | Audio | 1 x Line-in (available upon request) 1 x Line-out 1 x Mic-in | |
| | Buttons | 1 x ATX Switch | |
| COOLING | Fan | 2 x 92cm System Fan with Quick Access Filter | |
| WATCHDOG TIMER | Output & Interval | System Reset, Programmable via Software from 1 to 255 Seconds | |
| POWER | Supply | ATX PS/2 Power Supply 500W | AC Power Input : 90~264V |
| OS SUPPORT | | Windows 7 (/WES7) 32/64-bit Windows 8.1 (64-bit) Windows 10 IoT Enterprise 64-bit | Debian 8 (with VESA graphic driver) CentOS 7 (with VESA graphic driver) Linux |
| MECHANISM | Construction | SECC | |
| | Mounting | Flexible Hold Down Bar | |
| | Dimensions (W x H x D) | 483mm x 177mm x 451mm | |
| | Weight | 21.7kg | |
| ENVIRONMENT | Operating Temperature | 0 to 45°C | |
| | Storage Temperature | -20 to 60°C | |
| | Relative Humidity | 0 to 90% RH (non-condensing) | |
| STANDARDS AND CERTIFICATIONS | Shock | Operating: 3G | Non-operating: 5G |
| | Vibration | Operating: Random 5~500Hz 1G | Non-operating: Sweep Sine 10~500Hz 1.5G |
| | Package Drop | ISTA Project 1A | |
| | Certification | CE, FCC, RoHS | |



► Ordering Information

| Model Name | Part Number | Description |
|-----------------|-----------------|---|
| RM641-SD | 750-RM6411-100G | RM641-SD631, 4U Rackmount System, SD631-Q170, 2 LAN, 1 COM, 6 USB, 7 Expansion Slots, ATX PS/2 500W, RoHS |

► Optional Items

| Optional Items | Part Number | Description |
|---------------------|-----------------|--|
| CPU | 785-1151DL | CPU, LGA1151, Long-Term Support, RoHS |
| Memory | TBD | DIMM, DDR4 Module, 8GB, RoHS |
| | TBD | DIMM, DDR4 Module, 4GB, RoHS |
| | TBD | DIMM, DDR4 Module, 2GB, RoHS |
| HDD | 785-H351T0B | 3.5" SATA HDD, 1TB, RoHS |
| | 785-H35500G | 3.5" SATA HDD, 500GB, RoHS |
| | 785-H25500G | 2.5" SATA HDD, 500GB, RoHS |
| HDD Bracket | 622-050050-000G | 5.25" to 3.5" HDD Bracket |
| SSD Bracket | A31-028264-000G | 3.5" to 2.5" SSD Bracket |
| Power Supply | 671-330005-000G | ATX PS/2, 300W, 24pin, RoHS |
| | 671-350001-000G | ATX PS/2, 500W, 100~240V, RoHS |
| Power Cord | 785-PWRD | Power Cord, Standards (USA/EUR/CH), 1.8m, RoHS |

► Packing List

- 1 RM641-SD System Unit (including SD631-Q170 MB, CPU cooler, ATX 500W PSU)
- 1 SATA Cable
- 1 Quick Installation Guide